



## Direct Push Waste Zone Soil Moisture Probe— Type B Probe

### *Problem*

INEEL's Radioactive Waste Management Complex remediation project needed to measure soil moisture content in buried waste without exposing workers to transuranic or hazardous contaminants.

### *Baseline Technology*

Corehole drilling with extensive contamination control to retrieve samples for laboratory analysis.

### *Innovative Technology*

The Direct Push Waste Zone Soil Moisture Probe is a sensor that is driven into buried waste to continuously measure soil moisture content.

### *Comparison*

This Type B probe is inserted into the waste zone and left in place to monitor soil moisture content and eliminate the need for repeated corehole drilling to retrieve samples.

### *Benefits*

Use of the soil moisture probe and other Type B probes, collectively increase worker safety by avoiding risks associated with handling waste materials, and could save the project an estimated \$8.5 million by eliminating the need for coring sample retrieval.

ENVIRONMENTAL RESTORATION PROGRAM

Project: ID-ER-107  
Radioactive Waste Management Complex Remediation